

Methodology Used to Construct Depth vs. Concentration Plots

This appendix contains depth vs. concentration plots of selected Process Areas Soils for metals. Based on groundwater analysis, the following three areas have designated to be areas interest, as in section 4.2.3:

- Precipitation Plant Area,
- Northern Area, and
- Southern Area.

Two groundwater sampling locations or areas of high soils metals concentrations where chosen in each area of interest to be further analyzed. Analysis included four to five soils sampling locations within 200 feet each borehole, when applicable, to be graphed with concentration and depth. Soils chosen for the Precipitation Plant Area include those near boreholes PA-GW18 and PA-GW17; soils for the Northern Area include those near borehole PA-GW23 and in the former Calcine Ditch; finally, soils for the Southern Area those near borehole PA-GW4 and monitoring well PA-MW1.

The goal for creating the depth vs. concentration plots is to illustrate trends of increasing concentrations with depth which may indicate a potential source of groundwater contamination. Plots also include the background soils concentration (i.e., 3X-median concentration value of the Process Areas soils) and Residential PRGs for comparative analysis.